



BRUHAT BANGALORE MAHANAGARA PALIKE
Executive Engineer, Yelahanka Division

2nd & Final Bill

Measurement Book

Name of Work: Improvements of Roads , Development of
Parks and Construction of Buildings in Ward No 01,02,03
& 04 of Yelahanka Division Under 2021-22 District
Minister Grants. (Package-15)

Name of Agency: Sri. K. Lakshmi Narayana Reddy

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Rackage-15) Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)

ABSTRACT OF BILL (2nd & Final Bill)

Name of Agency: Sri. K. Lakshmi Narayana Reddy

Sl. No.	Description of work	Unit	BOQ Quantity	Rate	Previous Measurement		Present Measurement		Total UP-to-date		Remarks
					Qty	Cost	Qty	Cost	Qty.	Cost	
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specification and directions of the Engineer in charge.	Cum	225.85	692.57	223.70	154925.49		0.00	223.70	154925.49	
2	Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specification and directions of the Engineer in charge.	Sqm	1741.64	11.12	1741.64	19367.04		0.00	1741.64	19367.04	
3	Removing and refixing stone slabs of drains and pointing in CM (1:3) complete as per specification and directions of the Engineer in charge.	Sqm	5442.95	116.75	5442.95	635463.83		0.00	5442.95	635463.83	
4	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification and directions of the Engineer in charge.	Cum	3158.60	217.77	3157.02	687504.82		0.00	3157.02	687504.82	
5	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specification and directions of the Engineer in charge.	Cum	247.95								
	Qty Upto 125%	Cum	182.91	405.69	182.91	74203.24		0.00	182.91	74203.24	
	Qty above 125%	Cum	65.04	405.69	65.04	26387.62		0.00	65.04	26387.62	
	Excavation for roadwork in all types of soil by with hydraulic excavator of 0.9cum bucket capacity including cutting and loading to tipplers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specification and directions of the Engineer in charge.	Cum	100.40	72.44	100.40	7272.98		0.00	100.40	7272.98	

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 Asst. Executive Engineer
 Yelahanka Sub. Division
 (BBMP Ynk. Zn)
 Yelahanka, Bangalore

Sl. No.	Description of work	Unit	BOQ Quantity	Rate	Previous Measurement		Present Measurement		Total UP-to-date		Remarks
					Qty	Cost	Qty	Cost	Qty.	Cost	
7	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specification and directions of the Engineer in charge.	Cum	47.94								
	Qty Upto 125%	Cum	40.37	6202.72	40.37	253660.89		0.00	40.37	253660.89	
	Qty above 125%	Cum	7.56	6282.72	7.56	47501.29		0.00	7.56	47501.29	
8	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specification and directions of the Engineer in charge.	Cum	223.16								
	Qty Upto 125%	Cum	164.62	5110.48	164.62	841264.86		0.00	164.62	841264.86	
	Qty above 125%	Cum	58.54	5110.48	58.54	299164.31		0.00	58.54	299164.31	
9	Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:4, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, scaffolding, curing complete as per specification and directions of the Engineer in charge.	Cum	308.32								
	Qty Upto 125%	Cum	144.55	6677.20	144.55	965160.05		0.00	144.55	965160.05	
	Qty above 125%	Cum	163.78	6677.20	163.78	1093567.61		0.00	163.78	1093567.61	
10	Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specification and directions of the Engineer in charge.	Sqm	694.98								
	Qty Upto 125%	Sqm	280.31	157.90	280.31	44261.34		0.00	280.31	44261.34	
	Qty above 125%	Sqm	414.67	157.90	414.67	65476.00		0.00	414.67	65476.00	
11	Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @ 0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specification and directions of the Engineer in charge.	Cum	98.05	6194.88	98.05	607387.85		0.00	98.05	607387.85	
12	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specification and directions of the Engineer in charge.	Cum	214.59	6088.19	214.59	1306457.23		0.00	214.59	1306457.23	

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Sl. No.	Description of work	Unit	BOQ Quantity	Rate	Previous Measurement		Present Measurement		Total UP-to-date		Remarks
					Qty	Cost	Qty	Cost	Qty	Cost	
13	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs. With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machine mixed, well compacted for wall and Bottom including centering shuttering, cost of materials, HOM of Machinery, Curing Etc., Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per specification and directions of the Engineer in charge.	Cum	537.34	8108.42	535.91	4345409.92		0.00	535.91	4345409.92	
14	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69cum and fine aggregates @ 0.43cum, with superplastisizer @ 3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specification and directions of the Engineer in charge.	Cum	179.43	6616.20	179.43	1187151.38		0.00	179.43	1187151.38	
15	Providing and laying in position plain/Reinforced cement concrete M20 for sub-structure/Superstructure works, with cement @ 320 kgs, 20mm & down size graded granite metal coarse aggregate at 0.69 cum and fine aggregates @ 0.46 cum machine mixed with super plasticizers @ 3 lts confirming to IS 9103-2008, concrete laid in layers, well compacted and providing weep holes whenever necessary, with necessary scaffoldings, from work etc., including cost of labour, HOM curing etc., complete as per specification and directions of the Engineer in charge.	Cum	0.00	5536.35	0.00	0.00		0.00	0.00	0.00	
16	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specification and directions of the Engineer in charge.	tonne	50.43	95035.29	50.43	4792674.09		0.00	50.43	4792674.09	
17	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc complete as per specification and directions of the Engineer in charge. (Data Rate)	Sqm	1459.79	2016.10	1459.79	2943204.44		0.00	1459.79	2943204.44	

Signature

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 (BBMP Ynk. Zn)
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Sl. No.	Description of work	Unit	BOQ Quantity	Rate	Previous Measurement		Present Measurement		Total UP-to-date		Remarks
					Qty	Cost	Qty	Cost	Qty.	Cost	
18	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete as per specification and directions of the Engineer in charge.. (Data Rate)	Sqm	0.00	2451.51	0.00	0.00		0.00	0.00	0.00	
19	Supply and Fixing Precast reinforced concrete slab 15cm thick including cost of reinforcement as per design and drawing material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surfaces etc, complete as per specification and directions of the Engineer in charge.	Sqm	78.12	2615.16	78.12	204296.30		0.00	78.12	204296.30	
20	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and Jelly 20mm Down size with steel reinforcement including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete as per specification and directions of the Engineer in charge.	Sqm	128.40	5683.48	128.40	729758.83		0.00	128.40	729758.83	
21	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specification and directions of the Engineer in charge.	Sqm	180.72								
	Qty Upto 125%	Sqm	157.61	453.17	157.61	71425.26		0.00	157.61	71425.26	
	Qty above 125%	Sqm	23.11	453.17	23.11	10471.63		0.00	23.11	10471.63	
22	Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floors including cost of all materials, labour complete as per specification and directions of the Engineer in charge.	Sqm	123.42								
	Qty Upto 125%	Sqm	100.46	855.35	100.46	85930.60		0.00	100.46	85930.60	
	Qty above 125%	Sqm	22.96	855.35	22.96	19636.70		0.00	22.96	19636.70	
23	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for R.C.C works laid in 15 cms thick layers and well compacted including vibrating, curing, etc for all super Structure works with all lead and Lift etc., complete as per specification and directions of the Engineer in charge.	Cum	60.24								
	Qty Upto 125%	Cum	47.28	7026.47	47.28	332237.85		0.00	47.28	332237.85	
	Qty above 125%	Cum	12.96	7026.47	12.96	91036.70		0.00	12.96	91036.70	

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Sl. No.	Description of work	Unit	BOQ Quantity	Rate	Previous Measurement		Present Measurement		Total UP-to-date		Remarks
					Qty	Cost	Qty	Cost	Qty.	Cost	
24	Fabricating providing and erecting in position of MS Hot Dip galvanized sq hollow poles of 132 x 132 heavy gauge length 3000mm with MS Hot Dip galvanized grill work as per approved design and drawing of chief architect using 12 x 75mm galvanized flat for around frame and 20 x 20mm galvanized forged ornamental arrow head in top and bottom the work is inclusive of throughing flat square rods placing welding all the joints including griding finishing 2 coats of anticorrosive paint over one coat of metal primer the rate is inclusive of all materials all items of work cost painting welding cutting griding with lead and lift as per specifications including loading and unloading with cost and conveyance of all materials labour machinery and incidental charges for the successful completion of the work as per direction of engineer in charge of work	Sqm	700.38								
	Qty Up to 125%	Sqm	559.01	9592.20	559.01	5362159.70		0.00	559.01	5362159.70	
	Qty above 125%	Sqm	141.37	9592.20	141.37	1356025.33		0.00	141.37	1356025.33	
25	Providing & laying heavy duty cobble stones 60mm thick interlock pavers, using cement & coarse sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 201 kg per sqm over 50mm thick sand bed (Avg thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specification and directions of the Engineer in charge.	Sqm	401.60	1170.07	401.60	470221.39		0.00	401.60	470221.39	
26	Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping, under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt), including finishing cost of materials, labour, curing, complete as per specification and directions of the Engineer in charge.	Cum	60.24	714.87	60.24	43063.77		0.00	60.24	43063.77	
27	Dismantling Kerb stone by manual means and disposal of dismantled materials with all lifts and complete as per specification and directions of the Engineer in charge.	m	769.73	13.34	769.73	10268.20		0.00	769.73	10268.20	

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Praveen
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Sl. No.	Description of work	Unit	BOQ Quantity	Rate	Previous Measurement		Present Measurement		Total UP-to-date		Remarks
					Qty	Cost	Qty	Cost	Qty.	Cost	
40	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specification and directions of the Engineer in charge.	Cum	198.00								
	Qty Upto 125%	Cum	175.31	8964.46	175.31	1571532.07		0.00	175.31	1571532.07	
	Qty above 125%	Cum	22.69	8964.46	22.69	203430.21		0.00	22.69	203430.21	
41	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specification and directions of the Engineer in charge.	Sqm	14544.00	5.56	14541.06	80848.31		0.00	14541.06	80848.31	
42	Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specification and directions of the Engineer in charge.	Sqm	15713.00	13.34	15709.78	209568.40		0.00	15709.78	209568.40	
43	Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specification and directions of the Engineer in charge.	Cum	629.00	10491.15	628.39	6592544.43		0.00	628.39	6592544.43	
44	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC.35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specification and directions of the Engineer in charge.	Sqm	490.00	477.02	490.00	233739.00		0.00	490.00	233739.00	
45	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials separately complete as per specification and directions of the Engineer in charge.	Cum	1056.00	1072.05	1053.04	1129757.53		0.00	1053.04	1129757.53	

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Ramaswamy
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Yelahanka, Bangalore

Sl. No.	Description of work	Unit	BOQ Quantity	Rate	Previous Measurement		Present Measurement		Total UP-to-date		Remarks
					Qty	Cost	Qty	Cost	Qty.	Cost	
59	Executive Bench-Made out of Sadarahalli grey stone with hand supports with 3 line finishing with arch design with 100mm slabs. Height 90X Length 1500 width 45 cms complete as per specification and directions of the Engineer in charge. (Data approved rate)	Nos	28.00	19091.80	28.00	534570.40		0.00	28.00	534570.40	
60	Fabricating, supplying and erection of ...Mtrs long hot dip Galvanized Octagonal pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom mm, top mm with 3mm thick, suitable base plate and 4Nos of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc., (excluding foundation) as per drawing appended. 3 meters - Top 70mm and bottom 130mm dia complete as per specification and directions of the Engineer in charge.	Each	2.00	5622.64	2.00	11245.28		0.00	2.00	11245.28	
61	LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission Index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor > 0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the site location.	Nos	26.00	1930.16	26.00	50184.16		0.00	26.00	50184.16	
62	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specification and directions of the Engineer in charge.	Cum	20.01	508.68	20.01	10177.16		0.00	20.01	10177.16	

Santhosh

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Sl. No.	Description of work	Unit	BOQ Quantity	Rate	Previous Measurement		Present Measurement		Total UP-to-date		Remarks
					Qty	Cost	Qty	Cost	Qty	Cost	
69	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specification and directions of the Engineer in charge.	Cum	23.06	470.88	23.06	10859.67		0.00	23.06	10859.67	
70	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specification and directions of the Engineer in charge.	Cum	67.65	411.96	67.65	27869.09		0.00	67.65	27869.09	
71	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods Complete as per specifications and the directions of the Engineer-in-charge	Cum	1029.34				197.25				
	Qty Upto 125%	Cum	796.82	508.68	796.82	405327.40	0.00	0.00	796.82	405327.40	
	Qty above 125%	Cum	232.52	508.68	35.27	17940.77	197.25	100337.13	232.52	118277.90	
72	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. Complete as per specifications and the directions of the Engineer-in-charge	Cum	116.88	2751.06	95.48	262758.60	20.41	56170.97	115.90	318929.57	
73	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing Complete as per specifications and the directions of the Engineer-in-charge	Cum	160.27	6401.27	128.84	824751.31	20.41	130662.72	149.25	955414.03	
74	Providing and laying in position plain cement concrete of mix 1:4:8 (M7.5) with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specification and directions of the Engineer in charge.	Cum	112.46				2.37				
	Qty Upto 125%	Cum	74.74	6203.05	74.74	463627.59	0.00	0.00	74.74	463627.59	

Chaitanya

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Yelahanka, Bangalore

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					Qty	Cost	Qty	Cost	Qty	Cost	
	Qty above 125%	Cum	37.72	6203.05	35.35	219292.55	2.37	14674.87	37.72	233967.42	
75	Providing and laying in position plain cement concrete of mix M15 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.870cum and fine aggregates @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, H.O.M of machinery, curing complete as per specification and directions of the Engineer in charge.	cum	57.83	6706.56	57.83	387813.54		0.00	57.83	387813.54	
76	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69cum and fine aggregates @ 0.43cum, with superplasticiser @ 31ts conforming to IS9103-1999 Reaffirmed-2000, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, H.O.M of machinery, curing complete as per specification and directions of the Engineer in charge.	Cum	58.57	6741.03	29.51	198929.48	23.65	159438.04	53.16	358368.32	
77	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specification and directions of the Engineer in charge.	Cum	253.24				90.62				
	Qty Upto 125%	Cum	231.40	5206.90	162.62	846751.28	68.78	358106.11	231.40	1204857.39	
	Qty above 125%	Cum	21.84	5206.90	0.00	0.00	21.84	113737.96	21.84	113737.96	
78	Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:4, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, scaffolding, curing complete as per specification and directions of the Engineer in charge.	Cum	92.75				40.82				
	Qty Upto 125%	Cum	82.88	6803.18	49.94	339727.00	32.95	224152.62	82.88	563879.62	
	Qty above 125%	Cum	9.86	6803.18	0.00	0.00	7.08	53580.40	7.88	53580.40	
79	Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing Complete as per specifications and the directions of the Engineer-in-charge	Sqm	284.29				71.35				
	Qty Upto 125%	Sqm	190.13	160.87	190.13	30587.01	0.00	0.00	190.13	30587.01	
	Qty above 125%	Sqm	94.16	160.87	22.81	3668.65	71.35	11478.07	94.16	15146.72	
80	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specification and directions of the Engineer in charge.	Sqm	229.84	292.29	176.50	51589.19	53.34	15590.75	229.84	67179.93	

02

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Sl. No.	Description of work	Unit	BOQ Quantity	Rate	Previous Measurement		Present Measurement		Total UP-to-date		Remarks
					Qty	Cost	Qty	Cost	Qty.	Cost	
81	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications for heights more than 3.50m from ground level. - 0 to 5 mtrs. complete as per specification and directions of the Engineer in charge.	Sqm	303.36	453.17	209.67	131269.75	10.15	4599.60	299.82	135069.43	
82	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour Complete as per specifications and the directions of the Engineer-in-charge	Sqm	292.86	405.59	164.61	66764.17	128.25	52016.92	292.86	118781.09	
83	Providing and removing centering, shuttering, strutting, propping etc. and Removal of form Work for columns, pillars, piers, post and struts, square / rectangular / polygon in plan including cost of all materials, labour Complete as per specifications and the directions of the Engineer-in-charge	Sqm	225.92	516.61	123.32	63708.35	100.00	52074.29	224.12	115782.63	
84	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specification and directions of the Engineer in charge.	Sqm	178.62	330.81	178.62	59087.63		0.00	178.62	59087.63	
85	Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floors including cost of all materials, labour complete as per specification and directions of the Engineer in charge.	Sqm	18.41	855.35	18.41	15749.56		0.00	18.41	15749.56	
86	Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc., including edges including cost of all materials, labour complete as per specification and directions of the Engineer in charge.	Sqm	3.44	365.93	3.44	1258.00		0.00	3.44	1258.00	
87	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour Complete as per specifications and the directions of the Engineer-in-charge	Sqm	3.78	589.12	0.00	0.00	3.78	2226.87	3.78	2226.07	
88	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour Complete as per specifications and the directions of the Engineer-in-charge	Cum	1428.37	227.72	474.82	108125.70	951.64	216707.46	1426.46	324833.24	

Surjeet

Ramdasanjeevial
 Asst. Executive Engineer
 Yelahanka Sub. Division
 (BBMP Ynk. Zn)
 Yelahanka, Bangalore

Sl. No.	Description of work	Unit	BOQ Quantity	Rate	Previous Measurement		Present Measurement		Total UP-to-date		Remarks
					Qty	Cost	Qty	Cost	Qty.	Cost	
89	Conveying the excavated earth, debris etc., with all lead and lifts including loading and unloading charges etc., complete as per specification and directions of the Engineer in charge.	Cum	531.09				26.00				
	Qty Upto 125%	Cum	252.47	70.38	252.47	17769.09	0.00	0.00	252.47	17769.09	
	Qty above 125%	Cum	278.62	70.38	252.61	17778.60	26.00	1829.08	278.61	19608.48	
90	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplasticiser @ 3lts conforming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels, beams, retaining walls, return wall, walls (any thickness) including attached plasters, columns, pillars, posts, struts, butters, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets including cost of all materials, labour, HOM of machinery, curing, Complete as per specifications and the directions of the Engineer-in-charge	Cum	18.61	7647.31	12.45	95219.52	6.05	46250.93	18.50	141470.46	
91	Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70 cum and fine aggregates @ 0.47cum, with super plasticisers @ 3 liters conforming to IS 9103-1999 reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, column pillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, Complete as per specifications and the directions of the Engineer-in-charge	Cum	250.22	7383.34	221.74	1637216.08	35.57	262610.64	257.31	1899027.52	
	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for R.C.C works laid in 15 cms thick layers and well compacted including vibrating, curing, etc for all super structure works with all lead and lift etc., complete as per specification and directions of the Engineer in charge.	Cum	74.61	7026.47	74.61	524234.39		0.00	74.61	524234.39	

Chaitan

Ramesan Jeevaraj
Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Sl. No.	Description of work	Unit	BOQ Quantity	Rate	Previous Measurement		Present Measurement		Total UP-to-date		Remarks
					Qty	Cost	Qty	Cost	Qty	Cost	
93	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @ 0.5065cum and fine aggregates @ 0.391cum, with superplasticiser @ 0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto First Floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete as per specification and directions of the Engineer in charge.	Sqm	2.52	561.93	2.52	1416.06		0.00	2.52	1416.06	
94	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specification and directions of the Engineer in charge.	tonne	59.62				12.04				
	Qty Upto 125%	tonne	52.34	99036.47	47.57	4711094.60	4.77	472270.71	52.34	5183365.31	
	Qty above 125%	tonne	7.29	99036.47	0.00	0.00	7.27	720320.89	7.27	720320.89	
95	Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 conforming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4, as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machineries etc., Complete as per specifications and the directions of the Engineer-in-charge	Sqm	525.35	1033.22	269.44	278390.80	255.91	264411.33	525.35	542802.13	
96	Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 conforming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4, as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machineries etc., Complete as per specifications and the directions of the Engineer-in-charge	Sqm	102.60	1112.53	0.00	0.00	98.76	109873.46	98.76	109873.46	
97	Providing and constructing load bearing wall with solid concrete blocks of size 400X150X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 conforming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4, as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specification and directions of the Engineer in charge.	Sqm	30.48	1079.67	30.48	32908.34		0.00	30.48	32908.34	

Per J. H. 202

Asst. Executive Engineer
 Yelahanka Sub. Division
 (BBMP Ynk. Zn)
 Yelahanka, Bangalore

Sl. No.	Description of work	Unit	BOQ Quantity	Rate	Previous Measurement		Present Measurement		Total UP-to-date		Remarks
					Qty	Cost	Qty	Cost	Qty.	Cost	
112	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadoing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing Complete as per specifications and the directions of the Engineer-in-charge	Sqm	255.20	232.25	142.20	33025.95	101.43	23557.12	243.63	56583.07	
113	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadoing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing Complete as per specifications and the directions of the Engineer-in-charge	Sqm	78.98	239.05	0.00	0.00	71.82	17168.57	71.82	17168.57	
114	Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer. Complete as per specifications and the directions of the Engineer-in-charge	Sqm	576.17	88.37	0.00	0.00	571.94	50541.90	571.94	50541.90	
115	Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour Complete as per specifications and the directions of the Engineer-in-charge	Sqm	639.67				325.58				
	Qty Upto 125%	Sqm	633.83	101.96	300.73	30661.92	325.58	33195.63	626.30	63857.55	
	Qty above 125%	Sqm	5.84	101.96	0.00	0.00	0.00	0.00	0.00	0.00	
116	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after thoroughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications page no 117 Item no 15.49.1. KSRB 15-14.1 : Extra over Item 15-14.1 for applying oil bound washable distemper on ceiling and / or sloping roof Complete as per specifications and the directions of the Engineer-in-charge	Sqm	537.96	133.68	300.73	40200.92	237.23	31712.91	537.96	71913.82	
	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specification and directions of the Engineer in charge.	Sqm	132.70	115.56	132.70	15334.81	0.00		132.70	15334.81	

Chaitanya 02

Ramasanjeevarah
Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Sl. No.	Description of work	Unit	BOQ Quantity	Rate	Previous Measurement		Present Measurement		Total UP-to-date		Remarks
					Qty	Cost	Qty	Cost	Qty.	Cost	
118	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specification and directions of the Engineer in charge.	sqm	342.56								
	Qty Upto 125%	sqm	262.80	100.83	262.80	26498.12	0.00	0.00	262.80	26498.12	
	Qty above 125%	sqm	79.76	100.83	79.76	8042.20	0.00	0.00	79.76	8042.20	
119	Providing and fixing dadoing with Glazed tiles of approved size, make & sample and of 6mm minimum thick of first quality, conforming to IS specifications, set in cement mortar 1:3 (1 cement : 3 fine sand) 10mm thick with a thin coat of cement slurry on the rough plastered surfaces including finishing the joints with matching coloured cement, oxalic acid wash, waxing, curing etc. with all lead and lift etc. complete as per the directions of the Engineer-in-charge including cost & conveyance of all materials, cost of labour for all items of work, equipment and all other incidental charges for the successful Complete as per specifications and the directions of the Engineer-in-charge. (Ground Floor)	Sqm	113.00	1439.94	0.00	0.00	111.93	161172.48	111.93	161172.48	
120	Providing and fixing dadoing with Glazed tiles of approved size, make & sample and of 6mm minimum thick of first quality, conforming to IS specifications, set in cement mortar 1:3 (1 cement : 3 fine sand) 10mm thick with a thin coat of cement slurry on the rough plastered surfaces including finishing the joints with matching coloured cement, oxalic acid wash, waxing, curing etc. with all lead and lift etc. complete as per the directions of the Engineer-in-charge including cost & conveyance of all materials, cost of labour for all items of work, equipment and all other incidental charges for the successful completion of the work. (First Floor)	Sqm	78.98	1442.04	0.00	0.00	78.12	112652.16	78.12	112652.16	
	Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to match shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications.-do- using silver grey granite/Multry Red/Ruby Red/Black/Hassan Green Granite of width not less than 1200mm. Complete as per specifications and the directions of the Engineer-in-charge Ground Floor	Sqm	214.42	3103.07	0.00	0.00	214.42	665360.27	214.42	665360.27	

Chaitan
AE-02

Ramesh Sangeetha
Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Sl. No.	Description of work	Unit	BOQ Quantity	Rate	Previous Measurement		Present Measurement		Total UP-to-date		Remarks
					Qty	Cost	Qty	Cost	Qty.	Cost	
141	Providing & of Fixed Louvered Ventilator made out of multi chambered UPVC(Matching to RAL-9016) sections with Minimum TiO2(Titanium Dioxide) at 6PHR with TPV(Thermo Plastic Vulcanized) and lead free with gaskets-grey colour having isolated drainage and reinforced with Galvanized Iron profiles through out the Ventilator Frame. The frame having a overall size of 39mm x 39mm with GI reinforcement of 1 mm thickness. Louver clip in Aluminium(powder coated in white) will be used on the frame along with plastic parts for fixing the 4mm pin head glass. Wall thickness of frame shall be 2mm. Maximum possible size-1000mm X 1000mm.	Sqm	2.88	4114.77	2.88	11850.54		0.00	2.88	11850.54	
142	Providing & fixing of 3 Track - 2 Panel Sliding Windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPV(Thermo Plastic Vulcanized) and lead free, gaskets having isolated drainage and reinforced with Galvanized Iron profile through-out the window Frame. The outer frame having a overall size of 108 mm width X 45 mm height with reinforcement of 1 mm thickness and sash with overall size of 39 mm x 75 mm with GI reinforcement of 2 mm and mesh sash of size 30mm. Windows shall be provided with 5mm plain float glass, standard hardware and single point locking system with touch lock. Wall thickness of frame and sash shall be of 2mm -2.5mm. Maximum possible size - 2419mm x 21119 mm	Sqm	26.82	5913.84	26.82	158609.19		0.00	26.82	158609.19	
143	Providing and fixing MS grill work for windows and ventilators weighing 21 kgs./ sqm. using MS flats or MS square bars or combination of MS flats and square bars as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat red lead primer & two coats synthetic enamel paint, cost of materials, fixtures, labour and HOM of machinery complete as per technical specification and as directed by the Engineer-In-Charge of work with all lead & lift, loading & unloading and all other incidental charges etc. Ground Floor	kg	623.70	107.63	623.70	67128.83		0.00	623.70	67128.83	

Per 142

Rama Sangeetha
 Asst. Executive Engineer
 Yelahanka Sub. Division
 (BBMP Ynk. Zn)
 Yelahanka, Bangalore

Sl. No.	Description of work	Unit	BOQ Quantity	Rate	Previous Measurement		Present Measurement		Total UP-to-date		Rema rks
					Qty	Cost	Qty	Cost	Qty.	Cost	
144	Providing and fixing MS grill work for windows and ventilators weighing 21 kgs./sqm. using MS flats or MS square bars or combination of MS flats and square bars as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat red lead primer & two coats synthetic enamel paint, cost of materials, fixtures, labour and HOM of machinery complete as per technical specification and as directed by the Engineer-in-Charge of work, with all lead & lift, loading & unloading and all other incidental charges etc. First Floor	Kg	831.60	114.42	0.00	0.00	831.60	95151.67	831.60	95151.67	
145	Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after thoroughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications.. First Floor	Sqm	39.60	55.51	0.00	0.00	39.60	2198.20	39.60	2198.20	
146	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications First Floor	Sqm	59.40	107.63	59.40	6393.22		0.00	59.40	6393.22	
147	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications First Floor	Sqm	39.60	116.69	0.00	0.00	39.60	4620.92	39.60	4620.92	
148	Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids, cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface, including all labour charges tools and equipments, all complete as per specification and directions of the Engineer in charge.	Sqm	531.30	595.92	236.52	140947.00	222.21	132419.38	458.73	273366.38	

AE-02

Ramesh Sanjeev
Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Sl. No.	Description of work	Unit	BOQ Quantity	Rate	Previous Measurement		Present Measurement		Total UP-to-date		Remarks
					Qty	Cost	Qty	Cost	Qty.	Cost	
149	Providing Ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. - for Ceramic Tiles of size 30x30cms 6mm thick Ground Floor	Sqm	67.22	1370.83	43.07	59034.79	22.28	30542.09	65.35	89576.89	
150	Providing Ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, Complete as per specifications and the directions of the Engineer-in-charge. - for Ceramic Tiles of size 30x30cms 6mm thick First Floor	Sqm	25.73	1373.10	0.00	0.00	24.97	34279.44	24.97	34279.44	
151	Providing skirting, dado, rises of steps with colour glazed tiles 30X60 cms 6mm thick with border of size 30 x 10 cms on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specification and directions of the Engineer in charge.	Sqm	56.73	1048.93	56.73	104839.80	0.00	0.00	56.73	104839.80	
152	Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping, under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt), including finishing cost of materials, labour, curing, Complete as per specifications and the directions of the Engineer-in-charge	Sqm	245.95	714.87	245.95	175818.70	0.00	0.00	245.95	175818.70	
153	Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping, under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt), including finishing cost of materials, labour, curing, Complete as per specifications and the directions of the Engineer-in-charge	Sqm	210.34	717.14	0.00	0.00	210.34	150843.23	210.34	150843.23	

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 Asst. Executive Engineer
 Yelahanka Sub. Division
 (BBMP Ynk. Zn)
 Yelahanka, Bangalore

Sl. No.	Description of work	Unit	BOQ Quantity	Rate	Previous Measurement		Present Measurement		Total UP-to-date		Remarks
					Qty	Cost	Qty	Cost	Qty.	Cost	
154	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners, wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing Complete as per specifications and the directions of the Engineer-in-charge	Sqm	889.41	295.69	209.46	61935.23	679.95	201054.42	889.41	262989.64	
155	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, Complete as per specifications and the directions of the Engineer-in-charge	Sqm	679.95	123.95	0.00	0.00	679.95	84279.80	679.95	84279.80	
156	Fabricating, providing and erecting in position Hot dip galvanized Gate. Using 72x72x4.8 mm Sq. GI Pipe Frame with top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanized sq rod for verticals at 150mm c/c, as shown in the drawing including providing hot do galvanized forged ornamental design in between rods and heads at top, middle and bottom. Intermediate supports of 75x12mm and 50x6mm arch bent to hot dip galvanized flats. The work is inclusive of thoroughing GI, Flat GI Sqm. rods, placing, welding all the joints including grinding, finishing metal patty, painting two coats enamel painting. The rate is inclusive of all materials Like GI Sq. GI Pipe, GI Forged designs etc., heavy duty hinges are made out of 75mm sold sq. block assembled with 20mm du bearing in three places for each flap. Heavy duty locking arrangement of low places including cost of labour, painting, erection charges using hoist pulley cranes, with all lead and lift, loading, transportation, unloading scaffolding	Sqm	7.20	13086.31	7.20	94221.43		0.00	7.20	94221.43	
157	Providing and fixing Stainless steel staircase railing as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 gauge hollow pipe welded to vertical hollow 50mm dia pipe of 16 gauge, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specification and directions of the Engineer in charge.	Sqm	11.70	6821.31	11.70	79809.33		0.00	11.70	79809.33	

20/11/22

Rameshjeeval
 Asst. Executive Engineer
 Yelahanka Sub. Division
 (BBMP Ynk. Zn)
 Yelahanka, Bangalore

Sl. No.	Description of work	Unit	BOQ Quantity	Rate	Previous Measurement		Present Measurement		Total UP-to-date		Remarks
					Qty	Cost	Qty	Cost	Qty	Cost	
165	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC Insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block, complete for each outlet. Medium point above 3m - 6m	Point	48.00	208.48	13.00	3750.24	35.00	10096.80	48.00	13847.04	
166	Supplying heavy gauge pvc conduit pipe... dia confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 70mm using NF screws. Complete as per specifications and the directions of the Engineer-in-charge 25mm dia 2mm thick	Rm	168.00	68.19	0.00	0.00	168.00	11455.92	168.00	11455.92	
167	Concealed Conduit System - Supplying heavy gauge PVC conduit pipe mm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary. Complete as per specifications and the directions of the Engineer-in-charge 25mm dia 2mm thick	Rm	168.00	55.60	0.00	0.00	168.00	9340.80	168.00	9340.80	
168	Concealed Conduit System - Supplying heavy gauge PVC conduit pipe mm dia mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary. Complete as per specifications and the directions of the Engineer-in-charge 32mm dia 2mm thick	Mtr	110.00	87.07	110.00	9577.70	0.00	0.00	110.00	9577.70	
169	Groove cutting: Supplying heavy gauge conduit PVC 25/2mm of thick heavy with suitable size bend, metal junction boxes, adhesive pastes etc, by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary. Complete as per specifications and the directions of the Engineer-in-charge 19/20mm dia, 2mm thick	Mtr	50.00	41.96	50.00	2098.00	0.00	0.00	50.00	2098.00	

AE-DC

Ramdasanjeev
Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Sl. No.	Description of work	Unit	BOQ Quantity	Rate	Previous Measurement		Present Measurement		Total UP-to-date		Remarks
					Qty	Cost	Qty	Cost	Qty.	Cost	
186	Supplying and mounting 2 Nos, of 2 Way 6amps flush type switches either surface/flush mounted on existing gang box or in 4mm thick plastic sheet and mounted on a flush mounted wooden box and wiring as per IS 1293 Complete as per specifications and the directions of the Engineer-in-charge	Each	70.00	157.35	0.00	0.00	70.00	11014.50	70.00	11014.50	
187	Supplying and mounting 2 Nos, of 2 Way 6amps flush type switches either surface/flush mounted on existing gang box or in 4mm thick plastic sheet and mounted on a flush mounted wooden box and wiring as per IS 1293 Complete as per specifications and the directions of the Engineer-in-charge	Each	20.00	179.30	20.00	3587.60		0.00	20.00	3587.60	
188	Supply and fixing of bakelite D.P /socket/switch with/ without neon Indicator over existing wood board or flush mounting in plastic plates/niches as per IS 1293 and IS 3854 Complete as per specifications and the directions of the Engineer-in-charge	No	24.00	203.51	20.00	4070.20	4.00	814.04	24.00	4884.24	
189	Supply and fixing of bakelite D.P /socket/switch with/ without neon Indicator over existing wood board or flush mounting in plastic plates/niches as per IS 1293 and IS 3854 Electronic stepped regulator. Complete as per specifications and the directions of the Engineer-in-charge	No	15.00	221.34	15.00	3320.10		0.00	15.00	3320.10	
190	Wiring for lighting/power circuit using one of FRLS PVC Insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments 1.5sqmm Complete as per specifications and the directions of the Engineer-in-charge	Rm	231.20	21.03	0.00	0.00	231.00	4857.93	231.00	4857.93	
191	Wiring for lighting/power circuit using one of FRLS PVC Insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments 2.5sqmm Complete as per specifications and the directions of the Engineer-in-charge	Rm	331.20	33.57	100.00	3357.00	231.00	7754.67	331.00	11111.67	
192	Wiring for lighting/power circuit using one of FRLS PVC Insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments 4sqmm Complete as per specifications and the directions of the Engineer-in-charge	Mtr	60.00	47.21	60.00	2832.60		0.00	60.00	2832.60	
193	Supplying and fixing Metal Fan Box with Round Hook Complete as per specifications and the directions of the Engineer-in-charge	Each	21.00	89.17	15.00	1337.55	6.00	535.02	21.00	1872.57	

22

Remasangevaral
Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Sl. No.	Description of work	Unit	BOQ Quantity	Rate	Previous Measurement		Present Measurement		Total UP-to-date		Remarks
					Qty	Cost	Qty	Cost	Qty.	Cost	
207	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron and M.S. flat with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint (49/6.39) 75x150x50x6mm C channel	Mtr	4.00	679.75	4.00	2719.00		0.00	4.00	2719.00	
208	Supplying and Fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete, protection of Overload and Short circuit with thermal Magnetic/Microprocessed release and Earth Fault as per IS-13947. (Icu = Ics) (53/4.12) 63/100Amps 25kA	Each	1.00	6093.64	1.00	6093.64		0.00	1.00	6093.64	
209	Supplying and fixing Trivector meter suitable for operation LT operation and CT operated meter in polycarbonate body in class 0.5 accuracy as per IS 14697 and completely wired	Each	1.00	3963.12	1.00	3963.12		0.00	1.00	3963.12	
210	Supplying, fixing and wiring 50/5 to 1000/5Amps SVA burden Current Transformer Class 0.5 accuracy with Tape Wound (48/6.32)	Each	2.00	755.28	2.00	1510.56		0.00	2.00	1510.56	
211	Supplying of 1.1 KV LT UG cable having aluminium conductor PVC insulated, extruded inner sheathed, galvanised, steel strip (except 2Cx 10sqmm wire armoured) Confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1998 & confirming to the attached GTP of GROUP-A. (62/7.4) 4 core 16 sqmm	Mtr	30.00	157.35	30.00	4720.50		0.00	30.00	4720.50	
212	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required. In existing trench/duct. (68/7.8) 25 sqmm to 75 sqmm	Mtr	30.00	16.26	30.00	487.80		0.00	30.00	487.80	
213	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required. In existing trench/duct. (68/7.8) 300 sqmm 400 sqmm	Mtr	30.00	33.57	30.00	1007.10		0.00	30.00	1007.10	
214	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. (64/7.21) 25 sqmm Long Barrel	Each	8.00	21.60	8.00	172.80		0.00	8.00	172.80	
215	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes (64/7.21) 300 sqmm Long Barrel	Each	8.00	354.56	8.00	2836.48		0.00	8.00	2836.48	
216	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) (69/7.14) 50mm dia	Each	8.00	267.50	8.00	2140.00		0.00	8.00	2140.00	
217	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) (69/7.14) 75mm dia	Each	4.00	520.30	4.00	2081.20		0.00	4.00	2081.20	
218	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating. (68/7.9) In soil (hard)	Mtr	20.00	111.19	20.00	2223.80		0.00	20.00	2223.80	

20/10/22

Rama Sanjivani
Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Sl. No.	Description of work	Unit	BOQ Quantity	Rate	Previous Measurement		Present Measurement		Total UP-to-date		Remarks
					Qty	Cost	Qty	Cost	Qty.	Cost	
233	Providing and fixing Chlorinated Poly Vinyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) Complete as per specifications and the directions of the Engineer-in-charge	m	300.00	266.24			300.00	79872.00	300.00	79872.00	
	Sub Total Amount					81043877.97		7917621.60		88961499.64	
	Add 12.0% towards GST Charges					9725265.36		950114.60		10675379.96	
	Grand Total Amount					90769143.32		8867736.20		99636879.60	

Certificate

- 1 The above work has been Completed satisfactorily
- 2 The debris has been removed and disposed from the work spot.
- 3 No. departmental issues are made to the contractor


Assistant Engineer
Ward No.02
BBMP


Asst. Executive Engineer
Yelahanka Sub Division
BBMP
Yelahanka, Bangalore
13/06/2022

Executive Engineer
Yelahanka Division
BBMP

PRE-MEASUREMENT
SHEETS

05/05/2022

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Yelahanka Division

Name of Work: Improvements of Roads, Development of Parks and Construction of Buildings
in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants.
(Package-15)

Measurement Sheet

2nd & Final Bill

Name of Agency: Sri. K. Lakshmi Narayana Reddy

Item No.	71						
Item Name:	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods Complete as per specifications and the directions of the Engineer-in-charge						

SL NO	CHAINAGE	NO	L	Avg B	Avg D	QTY	REMARKS
			(m)	(m)	(m)		
Pre-Measurement Recorded On:			09/05/2022				
Ward No.02							
Nagenahalli School Compound Wall							
SSM Foundation							
	Back Side	1 ✓	30.00 ✓	0.90 ✓	1.20 ✓	32.40 ✓	
		1 ✓	14.50 ✓	0.90 ✓	1.20 ✓	15.66 ✓	
Western Side		1 ✓	28.70 ✓	0.90 ✓	1.20 ✓	31.00 ✓	
	Front	1 ✓	30.00 ✓	0.90 ✓	1.20 ✓	32.40 ✓	
		1 ✓	18.00 ✓	0.90 ✓	1.20 ✓	19.44 ✓	
Eastern Side		1 ✓	30.00 ✓	0.90 ✓	1.20 ✓	32.40 ✓	
	Sump	1 ✓	3.90 ✓	3.30 ✓	3.05 ✓	39.25 ✓	
Total Quantity						202.55	Cum
Modified Schedule-B Quantity						1029.34 ✓	Cum
Quantity Paid in 1st RA Bill						832.09 ✓	Cum
Quantity to be Paid						197.25	Cum
Quantity Carried to Summary						197.25 ✓	Cum

Asst Engineer
Ward No.02

Consultant Representative



Asst. Executive Engineer
Yelahanka Division
Bangalore

Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	72						
Item Name:	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. Complete as per specifications and the directions of the Engineer-in-charge						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:			12/05/2022				
Ward No.02							
Nagenahalli School Compound Wall							
SSM Foundation							
Back Side		1 ✓	30.00 ✓	0.90 ✓	0.15 ✓	4.05	✓
		1 ✓	14.50 ✓	0.90 ✓	0.15 ✓	1.96	✓
Western Side		1 ✓	28.70 ✓	0.90 ✓	0.15 ✓	3.87	✓
Front		1 ✓	30.00 ✓	0.90 ✓	0.15 ✓	4.05	✓
		1 ✓	18.00 ✓	0.90 ✓	0.15 ✓	2.43	✓
Eastern Side		1 ✓	30.00 ✓	0.90 ✓	0.15 ✓	4.05	✓
Total Quantity						20.41	Cum
Modified Schedule-B Quantity						116.88	Cum
Quantity Paid in 1st RA Bill						95.48	Cum
Quantity to be Paid						21.40	Cum
Quantity Carried to Summary						20.41	Cum

Asst Engineer
Ward No.02



Rameshwarish
Asst. Executive Engineer
Yelahanka Sub. Division
Yelahanka, Bangalore
Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	73						
Item Name:	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing Complete as per specifications and the directions of the Engineer-in-charge						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:			16/05/2022				
Ward No.02							
Nagenahalli School Compound Wall							
SSM Foundation							
	Back Side	1 ✓	30.00 ✓	0.90 ✓	0.15 ✓	4.05 ✓	
		1 ✓	14.50 ✓	0.90 ✓	0.15 ✓	1.96 ✓	
	Western Side	1 ✓	28.70 ✓	0.90 ✓	0.15 ✓	3.87 ✓	
	Front	1 ✓	30.00 ✓	0.90 ✓	0.15 ✓	4.05 ✓	
		1 ✓	18.00 ✓	0.90 ✓	0.15 ✓	2.43 ✓	
	Eastern Side	1 ✓	30.00 ✓	0.90 ✓	0.15 ✓	4.05 ✓	
Total Quantity						20.41	Cum
Modified Schedule-B Quantity						160.27	Cum
Quantity Paid in 1st RA Bill						128.84	Cum
Quantity to be Paid						31.43	Cum
Quantity Carried to Summary						20.41	Cum

Asst Engineer
Ward No.02



Asst. Executive Engineer
Yelahanka Sub Division
Asst. Executive Engineer
Yelahanka Sub Division

Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Yelahanka Division

Name of Work: Improvements of Roads, Development of Parks and Construction of Buildings
in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants.
(Package-15)

Measurement Sheet

2nd & Final Bill

Name of Agency: Sri. K. Lakshmi Narayana Reddy

Item No.	76							
Item Name:	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.43cum, with superplasticiser @3lts conforming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specification and directions of the Engineer in charge.							

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:			15/05/2022 25/05/2022				
Ward No.02							
Nagenahalli School Compound Wall							
Above SSM							
Back Side		1 ✓	30.00 ✓	0.60 ✓	0.20 ✓	3.60 ✓	} <

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

SL NO	CHAINAGE	NO	L	Avg B	Avg D	QTY	REMARKS
			(m)	(m)	(m)		
	Quantity Paid in 1st RA Bill					29.51	Cum
	Quantity to be Paid					29.06	Cum
	Quantity Carried to Summary					23.65	Cum

Asst Engineer
Ward No.02

Consultant Representative



Asst. Executive Engineer
Asst. Executive Engineer
Yelahanka Sub Division
Yelahanka, Bangalore

Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	77						
Item Name:	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specification and directions of the Engineer in charge.						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:			23/05/2022				
Ward No.02							
Nagenahalli School Compound Wall							
SSM Foundation							
	Back Side	1 ✓	30.00 ✓	0.75 ✓	0.40 ✓	9.00 ✓	
		1 ✓	14.50 ✓	0.75 ✓	0.40 ✓	4.35 ✓	
	Western Side	1 ✓	28.70 ✓	0.75 ✓	0.40 ✓	8.61 ✓	
	Front	1 ✓	30.00 ✓	0.75 ✓	0.40 ✓	9.00 ✓	
		1 ✓	18.00 ✓	0.75 ✓	0.40 ✓	5.40 ✓	
	Eastern Side	1 ✓	30.00 ✓	0.75 ✓	0.40 ✓	9.00 ✓	
	Back Side	1 ✓	30.00 ✓	0.60 ✓	0.50 ✓	9.00 ✓	
		1 ✓	14.50 ✓	0.60 ✓	0.50 ✓	4.35 ✓	
	Western Side	1 ✓	28.70 ✓	0.60 ✓	0.50 ✓	8.61 ✓	
	Front	1 ✓	30.00 ✓	0.60 ✓	0.50 ✓	9.00 ✓	
		1 ✓	18.00 ✓	0.60 ✓	0.50 ✓	5.40 ✓	
	Eastern Side	1 ✓	30.00 ✓	0.60 ✓	0.50 ✓	9.00 ✓	
Total Quantity						90.72	Cum
Modified Schedule-B Quantity						253.24	Cum
Quantity Paid in 1st RA Bill						162.62	Cum
Quantity to be Paid						90.62	Cum
Quantity Carried to Summary						90.62	Cum

Asst. Engineer
Ward No.02

Consultant Representative



Rameshwar
Asst. Executive Engineer
Yelahanka Sub Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore
Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Yelahanka Division

Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings
in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants.
(Package-15)

Measurement Sheet

2nd & Final Bill

Name of Agency: Sri. K. Lakshmi Narayana Reddy

Item No.	78							
Item Name:	Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:4 , edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, scaffolding, curing complete as per specification and directions of the Engineer in charge.							
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS	
Pre-Measurement Recorded On:			24/05/22					
Ward No.02								
Nagenahalli School Compound Wall								
	Back Side	1 ✓	30.00 ✓	0.60 ✓	0.45 ✓	8.10 ✓		
		1 ✓	14.50 ✓	0.60 ✓	0.45 ✓	3.92 ✓		
	Western Side	1 ✓	28.70 ✓	0.60 ✓	0.45 ✓	7.75 ✓		
	Front	1 ✓	30.00 ✓	0.60 ✓	0.45 ✓	8.10 ✓		
		1 ✓	18.00 ✓	0.60 ✓	0.45 ✓	4.86 ✓		
	Eastern Side	1 ✓	30.00 ✓	0.60 ✓	0.45 ✓	8.10 ✓		
	Total Quantity					40.82	Cum	
	Modified Schedule-B Quantity					92.75	Cum	
	Quantity Paid in 1st RA Bill					49.94	Cum	
	Quantity to be Paid					42.81	Cum	
	Quantity Carried to Summary					40.82	Cum	

Asst Engineer
Ward No.02

Consultant Representative



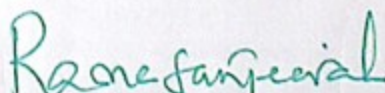
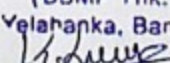
Rameshwar
Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP - Inv. Zn)
Yelahanka, Bangalore
K. L. L. L.
Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	79						
Item Name:	Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing Complete as per specifications and the directions of the Engineer-in-charge						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:			26/05/22				
Ward No.02							
Nagenahalli School Compound Wall							
	Back Side	2 ✓	30.00 ✓		0.45 ✓	27.00 ✓	
		2 ✓	14.50 ✓		0.45 ✓	13.05 ✓	
	Western Side	2 ✓	28.70 ✓		0.45 ✓	25.83 ✓	
	Front	2 ✓	30.00 ✓		0.45 ✓	27.00 ✓	
		2 ✓	18.00 ✓		0.45 ✓	16.20 ✓	
	Eastern Side	2 ✓	30.00 ✓		0.45 ✓	27.00 ✓	
	Total Quantity					136.08	Sqm
	Modified Schedule-B Quantity					284.29	Sqm
	Quantity Paid in 1st RA Bill					212.94	Sqm
	Quantity to be Paid					71.35	Sqm
	Quantity Carried to Summary					71.35	Sqm


 Asst Engineer
 Ward No.02

Consultant Representative




 Asst. Executive Engineer
 Yelahanka Sub Division
 (BBMP Ynk. Zn)
 Yelahanka, Bangalore

 Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	83						
Item Name:	Providing and removing centering, shuttering, strutting, propping etc. and Removal of form Work for columns, pillars, piers, post and struts, square / rectangular / polygon in plan including cost of all materials, labour Complete as per specifications and the directions of the Engineer-in-charge						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:			17/05/22				
Ward No.02							
Nagenahalli School Compound Wall							
Plinth Beam							
	Back Side	11 ✓	1.00 ✓		1.80 ✓	19.80	
		6 ✓	1.00 ✓		1.80 ✓	10.80	
	Western Side	11 ✓	1.00 ✓		1.80 ✓	19.80	
	Front	10 ✓	1.00 ✓		1.80 ✓	18.00	
		7 ✓	1.00 ✓		1.80 ✓	12.60	
	Eastern Side	11 ✓	1.00 ✓		1.80 ✓	19.80	
Total Quantity						100.80	sqm
Modified Schedule-B Quantity						225.92 ✓	sqm
Quantity Paid in 1st RA Bill						123.32 ✓	sqm
Quantity to be Paid						102.60	sqm
Quantity Carried to Summary						100.80 ✓	sqm

Asst Engineer
Ward No.02



Rameshjeevanth
Asst Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore
J. J. J.
Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	88						
Item Name:	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour . Complete as per specifications and the directions of the Engineer-in-charge						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:			16/05/22				
Ward No.02							
Nagenahalli School							
		1 ✓	36.00	5.70	1.00	205.20	
		1 ✓	49.00	10.60	1.00	519.40	
		1 ✓	48.00	3.25	1.00	156.00	
		1 ✓	25.50	2.00	1.00	51.00	
		1 ✓	11.60	3.00	1.00	34.80	
		1 ✓	3.20	3.20	1.00	10.24	
		-1 ✓	5.00	5.00	1.00	-25.00	
Total Quantity						951.64	Sqm
Quantity Carried to Summary						951.64	Sqm

Asst Engineer
Ward No.02

Consultant Representative



Ramesh Sanjiv
Asst. Executive Engineer
Yelahanka Sub-Division
Yelahanka, Bangalore

H. H. H. H.
Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	90						
Item Name:	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplasticiser @ 3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground Floor level for roof slabs, staircase, lintels, beams, retaining walls, return wall, walls (an thick ness) including attached plasters, columns, pillars, posts, struts, butters, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets including cost of all materials, labour, HOM of machinery, curing, Complete as per specifications and the directions of the Engineer-in-charge						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:			18/05/22				
Ward No.02							
Nagenahalli School Compound Wall							
	Columns						
	Back Side	11	0.20	0.30	1.80	1.19	
		6	0.20	0.30	1.80	0.65	
	Western Side	11	0.20	0.30	1.80	1.19	
	Front	10	0.20	0.30	1.80	1.08	
		7	0.20	0.30	1.80	0.76	
	Eastern Side	11	0.20	0.30	1.80	1.19	
Total Quantity						6.05	Cum
Modified Schedule-B Quantity						18.61	Cum
Quantity Paid in 1st RA Bill						12.45	Cum
Quantity to be Paid						6.16	Cum
Quantity Carried to Summary						6.05	Cum

Asst Engineer
Ward No.02



Asst. Executive Engineer
Yelahanka Sub. Division
Yelahanka (South Division)
Yelahanka, Bangalore
Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Yelahanka Division

Name of Work: Improvements of Roads, Development of Parks and Construction of Buildings
in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants.
(Package-15)

Measurement Sheet

2nd & Final Bill

Name of Agency: Sri. K. Lakshmi Narayana Reddy

Item No.	91							
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Item Name:

Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregates @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillers, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, Complete as per specifications and the directions of the Engineer-in-charge

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
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Pre-Measurement Recorded On:

20/05/22 27/05/22

Ward No.02

Nagenahalli School Compound Wall

Plinth Beam							
Back Side	1 ✓	30.00 ✓	0.40 ✓	0.45 ✓	5.40 ✓		
	1 ✓	14.50 ✓	0.40 ✓	0.45 ✓	2.61 ✓		
Western Side	1 ✓	28.70 ✓	0.40 ✓	0.45 ✓	5.17 ✓		
Front	1 ✓	30.00 ✓	0.40 ✓	0.45 ✓	5.40 ✓		
	1 ✓	18.00 ✓	0.40 ✓	0.45 ✓	3.24 ✓		
Eastern Side	1 ✓	30.00 ✓	0.40 ✓	0.45 ✓	5.40 ✓		
For Sump							
Bottom Slab	1 ✓	3.50 ✓	2.90 ✓	0.15 ✓	1.52 ✓		
Side Walls	2 ✓	3.50 ✓	0.15 ✓	2.90 ✓	3.05 ✓		
	2 ✓	2.60 ✓	0.15 ✓	2.90 ✓	2.26 ✓		
Top Slab	1 ✓	3.50 ✓	2.90 ✓	0.15 ✓	1.52 ✓		
Total Quantity					35.57 ✓	Cum	
Modified Schedule-B Quantity					258.22	Cum	
Quantity Paid in 1st RA Bill					221.74	Cum	

Signature
A.E.-2

Signature
Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Chainage		Unit	No	Dia in mm	Span	Length of bar	Spacing (m)	Total No. of bars (((6/8) x 4) + 1)	Total Length of bar (m) (7 x 9)	Weight per m	Qty in Kgs (10 x 11)	Remarks
From	To											
			2	8.00	18.00	1.10	0.100	361.00	697.10	0.39	271.87	
			2	16.00	30.00	30.00		4.00	420.00	1.58	663.70	
			2	8.00	30.00	1.10	0.100	601.00	911.10	0.39	355.33	
Sump												
Bottom			2	12.00	3.50	2.90	0.100	71.00	455.90	0.89	405.24	
			2	12.00	2.90	3.50	0.100	59.00	456.50	0.89	404.92	
Side Walls			4	12.00	3.50	3.20	0.100	141.00	751.20	0.89	666.31	
			4	12.00	2.60	3.20	0.100	105.00	636.00	0.89	564.13	
Top Slab			2	12.00	3.50	2.90	0.100	71.00	705.90	0.89	626.13	
			2	12.00	2.90	3.50	0.100	59.00	706.50	0.89	626.67	
Total Qty in Kgs											12041.94	
Total Quantity											12.04	Tonne
Modified Schedule-B Quantity											59.62	
Quantity Paid in 1st RA Bill											47.57	
Quantity to be Paid											12.05	Tonne
Quantity Carried to Summary											12.04	Tonne

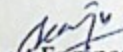
Asst Engineer
Ward No.02

Consultant Representative

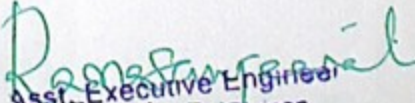
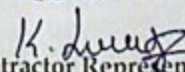


Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore
Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	95						
Item Name:	Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m ³ having a minimum average compressive strength 5.00N/mm ² confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4, as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., Complete as per specifications and the directions of the Engineer-in-charge						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:			22/05/22				
Ward No.02							
Nagenahalli School Compound Wall							
	Back Side	1 ✓	30.00 ✓		1.80 ✓	54.00	
		1 ✓	14.50 ✓		1.80 ✓	26.10	
	Western Side	1 ✓	28.70 ✓		1.80 ✓	51.66	
	Front	1 ✓	30.00 ✓		1.80 ✓	54.00	
		1 ✓	18.00 ✓		1.80 ✓	32.40	
	Eastern Side	1 ✓	30.00 ✓		1.80 ✓	54.00	
Total Quantity						272.16	Sqm
Modified Schedule-B Quantity						525.35	Sqm
Quantity Paid in 1st RA Bill						269.44	Sqm
Quantity to be Paid						255.91	Sqm
Quantity Carried to Summary						255.91	Sqm


 Asst Engineer
 Ward No.02




 Asst. Executive Engineer
 Yelahanka Division
 Bangalore

 Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	96						
Item Name:	Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m ³ having a minimum average compressive strength 5.00N/mm ² confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4, as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., Complete as per specifications and the directions of the Engineer-in-charge						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:			26/05/22				
Ward No.02							
Nagenahalli School							
Terrace Floor Parapet Wall							
		1	7.90		1.20	9.48	
		1	3.90		1.20	4.68	
		1	14.20		1.20	17.04	
		1	1.50		1.20	1.80	
		1	6.70		1.20	8.04	
		1	14.50		1.20	17.40	
		1	12.60		1.20	15.12	
		1	6.60		1.20	7.92	
		1	14.40		1.20	17.28	
Total Quantity						98.76	Sqm
Modified Schedule-B Quantity						102.60	Sqm
Quantity Carried to Summary						98.76	Sqm

Asst Engineer
Ward No.02



Ramesh
Asst. Executive Engineer
Asst. Executive Engineer
Yelahanka Sub Division
Yelahanka Sub Division
Yelahanka, Bangalore
Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	102						
Item Name:	Providing 15mm thick plain plastering in single coat to external masonry surfaces, in cement mortar 1:4 (1 cement : 4 fine sand) including providing & mixing water proofing compound of approved quality and make as admixture to cement mortar as per manufacturer's specifications, providing & removing necessary scaffolding, rounding of corners wherever required, sponge finishing, curing etc. including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading, with all lead and lifts etc., Complete as per specifications and the directions of the Engineer-in-charge. First Floor						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:			25/05/22				
Ward No.02							
Nagenahalli School (First Floor)							
External Plastering							
	Long Wall	1	16.00		3.35	53.60	
		1	21.40		3.35	71.69	
		1	14.60		3.35	48.91	
		1	16.90		3.35	56.62	
	Short Wall	2	5.50		3.35	36.85	
		2	5.50		3.35	36.85	
Deductions							
	Door	-4	1.20		2.10	-10.08	
	Windows	-16	1.50		1.20	-28.80	
	Ventilator	-4	0.75		0.60	-1.80	
		-1	1.50		0.60	-0.90	
Total Quantity						262.94	Sqm
Modified Schedule-B Quantity						260.69	Sqm
Quantity Carried to Summary						260.69	Sqm

Asst Engineer
Ward No.02

Consultant Representative



Asst. Executive Engineer
Yelahanka Division
Yelahanka Sub-Division (2n)
Yelahanka, Bangalore
Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Yelahanka Division

Name of Work: Improvements of Roads, Development of Parks and Construction of Buildings
in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants.
(Package-15)

Measurement Sheet

2nd & Final Bill

Name of Agency: Sri. K. Lakshmi Narayana Reddy

Item No.	109						
Item Name:	Providing textured paint of approved quality, colour and shade to wall surface after cleaning and rubbing the wall surface with wire brush of medium size emery stone to remove all the loosely adhering particles, the surface is then cleaned with water and ensured that it is in line and level. The textured material is then mixed with 40-50% of clean water until a homogeneous thick slurry is formed, the slurry is left for 5-10 min, to react completely with ingredients. The textured finish prepared as above is then applied to the wall surface with suitable roller/spray gun/putty/ blade/ trowel to get the desired finish. The finished surface shall be applied with two coats of exterior paint of approved shade. The rate includes providing and removing scaffolding, all lead and lift and all other incidental charges etc., Complete as per specifications and the directions of the Engineer-in-charge. First Floor						

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:			08/06/22				
Ward No.02							
Nagenahalli School (First Floor)							
External Plastering							
	Long Wall	1 ✓	16.00 ✓		3.35 ✓	53.60 ✓	} c.f.c.
		1 ✓	21.40 ✓		3.35 ✓	71.69 ✓	
		1 ✓	14.60 ✓		3.35 ✓	48.91 ✓	
		1 ✓	16.90 ✓		3.35 ✓	56.62 ✓	
	Short Wall	2 ✓	5.50 ✓		3.35 ✓	36.85 ✓	
		2 ✓	5.50 ✓		3.35 ✓	36.85 ✓	
Deductions							
	Door	-4 ✓	1.20 ✓		2.10 ✓	-10.08 ✓	} Ramasangeerish A.E.E
	Windows	-16 ✓	1.50 ✓		1.20 ✓	-28.80 ✓	
	Ventilator	-4 ✓	0.75 ✓		0.60 ✓	-1.80 ✓	
		-1 ✓	1.50 ✓		0.60 ✓	-0.90 ✓	

Chaitan
A.E.E

Ramasangeerish
Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

SL NO	CHAINAGE	NO	L	Avg B	Avg D	QTY	REMARKS
			(m)	(m)	(m)		
			Total Quantity			262.94	Sqm
			Modified Schedule-B Quantity			260.69	Sqm
			Quantity Carried to Summary			260.69	Sqm

[Signature]
Asst Engineer
Ward No.02



[Signature]

Asst. Executive Engineer
Yelahanka Sub Division

[Signature]
Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	154						
Item Name:	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing Complete as per specifications and the directions of the Engineer-in-charge						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:			27/05/22				
Ward No.02							
Nagenahalli School Compound Wall							
	Back Side	2 ✓	30.00		2.35	141.00	c/s for Ram A. K. E. Uch
		2 ✓	14.50		2.35	68.15	
	Western Side	2 ✓	28.70		2.35	134.89	
	Front	2 ✓	30.00		2.35	141.00	
		2 ✓	18.00		2.35	84.60	
	Eastern Side	2 ✓	30.00		2.35	141.00	
Total Quantity						710.64	Sqm
Modified Schedule-B Quantity						889.41	Sqm
Quantity Paid in 1st RA Bill						209.46	Sqm
Quantity to be Paid						679.95	Sqm
Quantity Carried to Summary						679.95	Sqm

Asst Engineer
Ward No.02

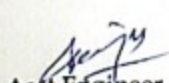
Consultant Representative



Ramesh Gangeeral
Asst. Executive Engineer
Yelahanka Sub Division
Yelahanka, Bangalore

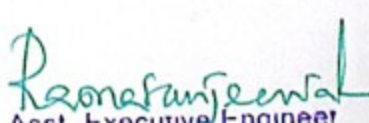
Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	164						
Item Name:	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. Complete as per specifications and the directions of the Engineer-in-charge Short point upto 3m						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:			30/05/22				
Ward No.02							
Nagenahalli School							
		40				40.00	
Total Quantity						40.00	Point
Modified Schedule-B Quantity						60.00	Point
Quantity Paid in 1st RA Bill						20.00	Point
Quantity to be Paid						40.00	Point
Quantity Carried to Summary						40.00	Point


 Asst Engineer
 Ward No.02

Consultant Representative




 Asst. Executive Engineer
 Asst. Executive Engineer
 Yelahanka Division
 Yelahanka, Bangalore

Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	173						
Item Name:	Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of approved make etc.,(ELE SR 2019-20 Page-2, Item-1.4.5)200x90x65mm						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			08/06/22				
Ward No.02							
Nagenahalli School							
		18				18.00	
Total Quantity						18.00	Each
Quantity Carried to Summary						18.00	Each

Asst Engineer
Ward No.02



Asst. Executive Engineer
Asst. Executive Engineer
Yelahanka Sub Division
Yelahanka, Bangalore

Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Yelahanka Division

Name of Work: Improvements of Roads, Development of Parks and Construction of Buildings
in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants.
(Package-15)

Measurement Sheet

2nd & Final Bill

Name of Agency: Sri. K. Lakshmi Narayana Reddy

Item No.	176							
Item Name:	Suppling and wiring adopting loop system in existing PVC Conduit/ casting capping using copper PVC insulated multi strand 2x1.5sqmm copper wire with a 6 Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box. The outhter end of the wires shall be terminated with sufficient loose lenglth in a wood / PVC round block. compelete for each outlet. Complete as per specifications and the directions of the Engineer-in-charge Medium point above 3 Mtr up to 6 mtr from tapping point to out let via switch							
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS	
Measurement Recorded On:			08/06/22					
Ward No.02								
Nagenahalli School								
		12				12.00		
Total Quantity						12.00	Point	
Quantity Carried to Summary						12.00	Point	

Asst Engineer
Ward No.02



Asst. Executive Engineer
Asst. Executive Engineer
Yelahanka Sub Division
Yelahanka, Bangalore

Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	178						
Item Name:	Supplying and fixing of 32 Amps security and energy saving DP switch with key tag suitable to operate on 230 volts, 50Hz AC supply and completely wired on existing box. complete as per specification and directions of the Engineer in charge.						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			09/06/22				
Ward No.02							
Nagenahalli School							
		12				12.00	
Total Quantity						12.00	Each
Quantity Carried to Summary						12.00	Each

[Signature]
Asst Engineer
Ward No.02



[Signature]
Asst Executive Engineer
Yelahanka Sub. Division
(BBMP Yrk. 217)
Yelahanka, Bangalore

[Signature]
Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	180						
Item Name:	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, screws at an interval of 300mm... Etc as required. Complete as per specifications and the directions of the Engineer-in-charge						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			09/06/22				
Ward No.02							
Nagenahalli School							
		1	90.00			90.00	
Total Quantity						90.00	Mtr
Quantity Carried to Summary						90.00	Mtr

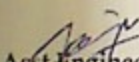
Assf Engineer
Ward No.02



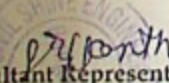
Ramalingam
Asst. Executive Engineer
Asst. Executive Engineer on
Yelahanka Sub Division
Yelahanka, Bangalore

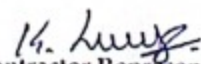
K. Luvu
Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	182						
Item Name:	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size 110mm conduit using necessary machine screws.Complete as per specifications and the directions of the Engineer-in-charge						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			09/06/22				
Ward No.02							
Nagenahalli School							
		96				96.00	
Total Quantity						96.00	Nos
Quantity Carried to Summary						96.00	Nos


 Asst Engineer
 Ward No.02


 Asst. Executive Engineer
 Asst. Executive Engineer
 Yelahanka Sub Division
 Yelahanka, Bangalore



 Consultant Representative


 Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	186						
Item Name:	Supplying and mounting 2 Nos, of 2 Way 6amps flush type switches either surface/flush mounted on existing gang box or in 4mm thick plastic sheet and mounted on a flusg mounted wooden box and wiring as per IS 1293 Complete as per specifications and the directions of the Engineer-in-charge						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			09/06/22				
Ward No.02							
Nagenahalli School							
		70				70.00	
Total Quantity						70.00	Nos
Quantity Carried to Summary						70.00	Nos

[Signature]
Asst Engineer
Ward No.02

[Signature]
Asst. Executive Engineer
Asst. Executive Engineer
Yelahanka Sub. Division
Yelahanka Sub. Division
Yelahanka, Bangalore

[Signature]
Consultant Representative

[Signature]
Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	195						
Item Name:	Supply and fixing miniature circuit breakers on the existing MCB distribution boards using necessary fixing materials and "C" type curve, Indicator ON/OFF energy cross -3 with as required confirming to IEC 60898 5-32 AMPS DP Complete as per specifications and the directions of the Engineer-in-charge						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			10/06/22				
Ward No.02							
Nagenahalli School							
		3				3.00	
Total Quantity						3.00	Nos
Quantity Carried to Summary						3.00	Nos

[Signature]
Asst Engineer
Ward No.02

[Signature]
Consultant Representative

[Signature]
Asst. Executive Engineer
Yelahanka Sub Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

[Signature]
Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	203						
Item Name:	Suppiying and fixing of slim box Fitting ,made out of CRCA sheet metal body with locking type holder completely wired Excluding Ballast &Flouresent Tube. 1X4' Tube light Fitting Complete as per specifications and the directions of the Engineer-in-charge						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			13/06/22				
Ward No.02							
Nagenahalli School							
		50				50.00	
Total Quantity						50.00	Nos
Quantity Carried to Summary						50.00	Nos

Asst Engineer
Ward No.02



Asst. Executive Engineer
Asst. Executive Engineer
Yelahanka Sub Division
Yelahanka, Bangalore

Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	223						
Item Name:	Providing and fixing 453x357mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour Complete as per specifications and the directions of the Engineer-in-charge						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			13/06/22				
Ward No.02							
Nagenahalli School							
		1				1.00	
Total Quantity						1.00	Nos
Quantity Carried to Summary						1.00	Nos

Asst Engineer
Ward No.02



Asst. Executive Engineer
Yelahanka Sub Division
Yelahanka, Bangalore

Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	226						
Item Name:	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials,labour charges, HOM of acquirements and testing complete as per specifications.For Rain water pipe.Complete as per specifications and the directions of the Engineer-in-charge - do - 110 mm dia						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			13/06/22				
Ward No.02							
Nagenahalli School							
		1	95.00			95.00	
Total Quantity						95.00	Rmtr
Quantity Carried to Summary						95.00	Rmtr

[Signature]
Asst Engineer
Ward No.02



[Signature]
Asst. Executive Engineer
Yelahanka Sub Division
(80/10/1/15, 20)
Yelahanka, Bangalore

[Signature]
Contractor Representative

MEASUREMENT SHEETS

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15) Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)

ABSTRACT OF BILL (2nd & Final Bill)

Sl. No.	Description of work	Nos	L in m	Avg B in m	D in m	Qty	Remarks
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specification and directions of the Engineer in charge.						
	Pre-Measurement Qty						
	Modified Schedule-B Qty					225.85	
	Quantity in 1st RA Bill					223.70	
	Quantity to be Paid					2.15	
	Quantity Carried to Summary					0.00	Cum
2	Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specification and directions of the Engineer in charge.						
	Pre-Measurement Qty					0.00	
	Modified Schedule-B Qty					1741.64	
	Quantity in 1st RA Bill					1741.64	
	Quantity to be Paid					0.00	
	Quantity Carried to Summary					0.00	Sqm
3	Removing and refixing stone slabs of drains and pointing in CM (1:3) complete as per specification and directions of the Engineer in charge.						
	Pre-Measurement Qty						
	Modified Schedule-B Qty					5442.95	
	Quantity in 1st RA Bill					5442.95	
	Quantity to be Paid					0.00	
	Quantity Carried to Summary					0.00	Sqm

Ch. Jy. A. 2

Rameshwaril
Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

BRUHAT BANGALORE MANGALAGARA PALIKE
Executive Engineer, Yelahanka Division

Name of Work: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)

Measurement Sheet
2nd & Final Bill

Name of Agency: Sri. K. Lakshmi Narayana Reddy

Item No.	119						
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Item Name:	Providing and fixing dadoing with Glazed tiles of approved size, make & sample and of 6mm minimum thick of first quality, conforming to IS specifications, set in cement mortar 1:3 (1 cement : 3 fine sand) 10mm thick with a thin coat of cement slurry on the rough plastered surfaces including finishing the joints with matching coloured cement, oxalic acid wash, waxing, curing etc. with all lead and lift etc. complete as per the directions of the Engineer-in-charge including cost & conveyance of all materials, cost of labour for all items of work, equipment and all other incidental charges for the successful Complete as per specifications and the directions of the Engineer-in-charge. (Ground Floor)
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SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
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Pre-Measurement Recorded On: 10/06/22

Ward No.02

Nagenahalli School (Ground Floor)

Rough Plastering							
Ladies Toilet	2	1.40		2.10	5.88		
	2	1.20		2.10	5.04		
	8	5.20		2.10	87.36		
	2	7.50		2.10	31.50		
	1	5.00		2.10	10.50		
Deductions							
Door	8	0.75		2.10	-28.35		
Total Quantity					111.93	Sqm	
Quantity Carried to Summary					111.93	Sqm	

Asst. Engineer
Ward No.02



Ramesanjanah.
Asst. Executive Engineer
Yelahanka Sub. Division
Yelahanka, Bangalore
K. Laxmi
Contractor Representative

BRUHAT BANGALORE MAHANAGAR

Executive Engineer, Yelahanka Division

Name of Work: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)

Measurement Sheet

2nd & Final Bill

Name of Agency: Sri. K. Lakshmi Narayana Reddy

Item No.	120						
Item Name:	Providing and fixing dadoing with Glazed tiles of approved size, make & sample and of 6mm minimum thick of first quality, conforming to IS specifications, set in cement mortar 1:3 (1 cement : 3 fine sand) 10mm thick with a thin coat of cement slurry on the rough plastered surfaces including finishing the joints with matching coloured cement, oxalic acid wash, waxing, curing etc. with all lead and lift etc. complete as per the directions of the Engineer-in-charge including cost & conveyance of all materials, cost of labour for all items of work, equipment and all other incidental charges for the successful completion of the work.(First Floor)						

SL NO	CHAINAGE	NO	L	Avg B	Avg D	QTY	REMARKS
			(m)	(m)	(m)		
Pre-Measurement Recorded On:			10/06/22				
Ward No.02							
Nagenahalli School (First Floor)							
Rough Plastering							
Gents Toilet		2	2.20		2.10	9.24	
		2	1.40		2.10	5.88	
		4	5.20		2.10	43.68	
		2	6.10		2.10	25.62	
		1	3.00		2.10	6.30	
Deductions							
Door		-8	0.75		2.10	-12.60	

Asst Engineer
Ward No.02

Consultant Representative



Asst Executive Engineer
Yelahanka Sub Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Contractor Representative

Rameshwar

K. Lakshmi Narayana Reddy

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Yelahanka Division

**Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings
in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants.
(Package-15)**

Measurement Sheet

2nd & Final Bill

Name of Agency: Sri. K. Lakshmi Narayana Reddy

Item No.	121						
Item Name:	Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc , complete as per specifications.-do- using silver grey granite/Multy Red/Ruby Red/Black/ Hassan Green Granite of width not less than 1200mm Complete as per specifications and the directions of the Engineer-in-charge Ground Floor						

SL NO	CHAINAGE	NO	L	Avg B	Avg D	QTY	REMARKS
			(m)	(m)	(m)		
Pre-Measurement Recorded On:			10/06/22				
Ward No.02							
Nagenahalli School (Ground Floor)							
	Flooring						
	Class Room-1	1	5.10	7.00		35.70	
	Class Room-2	1	5.10	7.00		35.70	
	Class Room-3	1	5.10	7.00		35.70	
	Class Room-4	1	5.10	7.00		35.70	
	Corridor	1	17.80	1.80		32.04	
			14.80	1.80		26.64	
	Skirting						
	Class Room-1	1	23.00		0.15	3.45	
	Class Room-2	1	23.00		0.15	3.45	
	Class Room-3	1	23.00		0.15	3.45	
	Class Room-4	1	23.00		0.15	3.45	
	Stage	1	6.00		0.15	3.60	
Total Quantity						218.88	Sqm
Modified Schedule-B Quantity						214.42	Sqm
Quantity Carried to Summary						214.42	Sqm

Asst Engineer
Ward No.02

Consultant Representative



Asst. Executive Engineer
Yelahanka Sub Division

Yelahanka, Bangalore

Contractor Representative

Ramesh Kumar

N. L. S.

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Yelahanka Division

Name of Work: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)

Measurement Sheet

2nd & Final Bill

Name of Agency: Sri. K. Lakshmi Narayana Reddy

Item No.	122							
Item Name:	Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to match shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications.-do- using silver grey granite/Multy Red/Ruby Red/Black/ Hassan Green Granite of width not less than 1200mm Complete as per specifications and the directions of the Engineer-in-charge First Floor							

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:			10/06/22				
Ward No.02							
Nagenahalli School (Ground Floor)							
	Flooring						
	Class Room-1	1	5.10	7.00		35.70	
	Class Room-2	1	5.10	7.00		35.70	
	Class Room-3	1	5.10	7.00		35.70	
	Class Room-4	1	5.10	7.00		35.70	
	Corridor	1	17.50	1.40		24.50	
		1	14.60	1.40		20.44	
	Infront of Staircase	1	3.00	1.50		4.50	
	Skirting						
	Class Room-1	1	23.00		0.15	3.45	
	Class Room-2	1	23.00		0.15	3.45	
	Class Room-3	1	23.00		0.15	3.45	
	Class Room-4	1	23.00		0.15	3.45	
	Stage	1	6.00		0.15	3.60	
Total Quantity						209.64	Sqm
Modified Schedule-B Quantity						214.42	Sqm
Quantity Carried to Summary						209.64	Sqm

Asst. Engineer
Ward No.02



Ramesh
Asst. Executive Engineer
Yelahanka Sub. Division
Yelahanka (Sub. Divn. Zn)
Yelahanka, Bangalore
K. Lakshmi Narayana Reddy
Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	125						
Item Name:	Providing half nosing for 20mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., Complete as per specifications and the directions of the Engineer-in-charge						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:			13/06/22				
Ward No.02							
Nagenahalli School (Ground Floor)							
	Skirting						
	Class Room-1	1 ✓	23.00 ✓			23.00 ✓	
	Class Room-2	1 ✓	23.00 ✓			23.00 ✓	
	Class Room-3	1 ✓	23.00 ✓			23.00 ✓	
	Class Room-4	1 ✓	23.00 ✓			23.00 ✓	
	Corridor	1 ✓	17.80 ✓			17.80 ✓	
		1 ✓	14.80 ✓			14.80 ✓	
	Stage	4 ✓	6.00 ✓			24.00 ✓	
Total Quantity						148.60	Mtr
Modified Schedule-B Quantity						168.92	Mtr
Quantity Paid in 1st RA Bill						22.20	Mtr
Quantity to be Paid						146.72	Mtr
Quantity Carried to Summary						146.72 ✓	Mtr

Asst Engineer
Ward No.02



Consultant Representative

Ramasangeenil

Asst Executive Engineer
Yelahanka Sub Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

K. Lakshmi
Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE							
Executive Engineer, Yelahanka Division							
Name of Work: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)							
Measurement Sheet							
2nd & Final Bill							
Name of Agency: Sri. K. Lakshmi Narayana Reddy							
Item No.	138						
Item Name:	Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung 2/3 openable 1/3 fixed as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 kg/m both for outer and inner frames and central mullion section of size 25x46x3mm, weighing 2.28kg/m all duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows, not more than 34 cms. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to IS 7452-1990, 4nos. of holdfasts of approved size, section should be cut to length welded and grinded electrically subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be thoroughly cleaned free of rust and painted with one coat of anti-corrosive paint and finishing two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour charges and HOM complete as per specifications.						
SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Pre-Measurement Recorded On:			08/06/22				
Ward No.02							
Nagenahalli School							
	Window	16	1.50		1.50	36.00	
	Ventilator	8	0.75		0.60	3.60	
Total Quantity						39.60	Sqm
Modified Schedule-B Quantity						46.80	Sqm
Quantity Paid in 1st RA Bill						7.20	Sqm
Quantity to be Paid						39.60	Sqm
Quantity Carried to Summary						39.60	Sqm

Asst Engineer
Ward No.02

Consultant Representative



Rameshjeeval

Asst. Executive Engineer
Yelahanka Sub Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Yelahanka Division

Name of Work: Improvements of Roads, Development of Parks and Construction of Buildings
in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants.
(Package-15)

Measurement Sheet

2nd & Final Bill

Name of Agency: Sri. K. Lakshmi Narayana Reddy

Item No.	147							
Item Name:	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications First Floor							

SL NO	CHAINAGE	NO	L	Avg B	Avg D	QTY	REMARKS
			(m)	(m)	(m)		
Measurement Recorded On:			10/06/22				
Ward No.02							
Nagenahalli School							
	Window	16 ✓	1.50 ✓		1.50 ✓	36.00 ✓	
	Ventilator	8 ✓	0.75 ✓		0.60 ✓	3.60 ✓	
Total Quantity						39.60	Sqm
Modified Schedule-B Quantity						39.60	Sqm
Quantity Carried to Summary						39.60 ✓	Sqm

Asst Engineer
Ward No.02

Consultant Representative

Rama Sangevail
Asst. Executive Engineer
Asst. Executive Engineer
Yelahanka Sub Division
Yelahanka, Bangalore

H. Kumar
Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Yelahanka Division

Name of Work: Improvements of Roads , Development of Parks and Construction of Buildings in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants. (Package-15)

Measurement Sheet

2nd & Final Bill

Name of Agency: Sri. K. Lakshmi Narayana Reddy

Item No.	150							
Item Name:	Providing Ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, Complete as per specifications and the directions of the Engineer-in-charge. - for Ceramic Tiles of size 30x30cms 6mm thick First Floor							

SL NO	CHAINAGE	NO	L (m)	Avg B (m)	Avg D (m)	QTY	REMARKS
Measurement Recorded On:			13/6/22				
Ward No.02							
Nagenahalli School							
For Flooring							
Gents Toilet		1	2.20	1.40		3.08	
		1	6.10	2.25		13.73	
		1	1.20	1.20		1.44	
WC		4	1.40	1.20		6.72	
Total Quantity						24.97	Sqm
Modified Schedule-B Quantity						25.73	Sqm
Quantity Carried to Summary						24.97	Sqm

Asst Engineer
Ward No.02



Ramesh Srinivasiah
Asst. Executive Engineer
Yelahanka Sub Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore
K. Lakshmi Narayana Reddy
Contractor Representative

BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer, Yelahanka Division

Name of Work: Improvements of Roads, Development of Parks and Construction of Buildings
in Ward No 01,02,03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants.
(Package-15)

Measurement Sheet

2nd & Final Bill

Name of Agency: Sri. K. Lakshmi Narayana Reddy

Item No.	159						
Item Name:	Providing and fixing M.S.Grill over existing compound wall as per, using 16mm x 16mm M.S.Square rod at 150mm c/c spacing and 6mm x 40mm M.S. flats at horizontal and 6mm x 12mm M.S. flat for ornamental design and providing shop edge design at the vertex of every vertical rods, including welding, grinding wherever necessary. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., Complete as per specifications and the directions of the Engineer-in-charge						

SL NO	CHAINAGE	NO	L	Avg B	Avg D	QTY	REMARKS
			(m)	(m)	(m)		
Measurement Recorded On:			13/08/22				
Ward No.02							
Nagenahalli School							
		1	12.60		1.80	22.68	
		1	14.60		1.80	26.28	
Total Quantity						48.96	Sqm
Modified Schedule-B Quantity						90.50	Sqm
Quantity Paid in 1st RA Bill						41.67	Sqm
Quantity to be Paid						48.83	Sqm
Quantity Carried to Summary						48.83	Sqm

Asst. Engineer
Ward No.02

Consultant Representative

Asst. Executive Engineer
Yelahanka Sub. Division
Yelahanka, Bangalore

Contractor Representative

123	Providing skirting, dado, rises of steps with colour glazed tiles 30X60 cms 6mm thick with border of size 30 x 10 cms on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specification and directions of the Engineer in charge.		
	Pre-Measurement Qty		
	Modified Schedule-B Qty	83.40	
	Quantity in 1st RA Bill	83.40	
	Quantity to be Paid	0.00	
	Quantity Carried to Summary	0.00	sqm
124	Providing and laying Hassan Green / River Pink granite flooring for staircase, treads and rises using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing, cutting 3 line grooves not more than 2 mm wide for antiskidding, including cost of all materials, mortar, labour, curing etc., complete as per specification and directions of the Engineer in charge.		
	Pre-Measurement Qty		
	Modified Schedule-B Qty	202.88	
	Quantity in 1st RA Bill	202.88	
	Quantity to be Paid	0.00	
	Quantity Carried to Summary	0.00	sqm
125	Providing half nosing for 20mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., Complete as per specifications and the directions of the Engineer-in-charge		
	Pre-Measurement Qty	146.72	
	Modified Schedule-B Qty	168.92	
	Quantity in 1st RA Bill	22.20	
	Quantity to be Paid	146.72	
	Quantity Carried to Summary	146.72	m
126	Providing half nosing for 20mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., Complete as per specifications and the directions of the Engineer-in-charge		
	Pre-Measurement Qty	146.72	
	Modified Schedule-B Qty	146.72	
	Quantity in 1st RA Bill	0.00	
	Quantity to be Paid	146.72	
	Quantity Carried to Summary	146.72	m

Amr
RE-2

Ramesh
Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

143	Providing and fixing MS grill work for windows and ventilators weighing 21 kgs / sqm. using MS flats or MS square bars or combination of MS flats and square bars as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat red lead primer & two coats synthetic enamel paint, cost of materials, fixtures, labour and HOM of machinery complete as per technical specification and as directed by the Engineer-in-Charge of work with all lead & lift, loading & unloading and all other incidental charges etc Ground Floor		
	Pre-Measurement Qty		
	Modified Schedule-B Qty	623.70	
	Quantity in 1st RA Bill	623.70	
	Quantity to be Paid	0.00	
	Quantity Carried to Summary	0.00	kg
144	Providing and fixing MS grill work for windows and ventilators weighing 21 kgs / sqm. using MS flats or MS square bars or combination of MS flats and square bars as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat red lead primer & two coats synthetic enamel paint, cost of materials, fixtures, labour and HOM of machinery complete as per technical specification and as directed by the Engineer-in-Charge of work with all lead & lift, loading & unloading and all other incidental charges etc First Floor		
	Pre-Measurement Qty	831.60	
	Modified Schedule-B Qty	831.60	
	Quantity in 1st RA Bill	0.00	
	Quantity to be Paid	831.60	
	Quantity Carried to Summary	831.60	Kg
145	Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after thoroughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications. First Floor		
	Pre-Measurement Qty	39.60	
	Modified Schedule-B Qty	39.60	
	Quantity in 1st RA Bill	0.00	
	Quantity to be Paid	39.60	
	Quantity Carried to Summary	39.60	Sqm
146	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications First Floor		
	Pre-Measurement Qty		
	Modified Schedule-B Qty	59.40	
	Quantity in 1st RA Bill	59.40	
	Quantity to be Paid	0.00	
	Quantity Carried to Summary	0.00	Sqm

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Rame Sanjeeral
Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka

158	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., Complete as per specifications and the directions of the Engineer-in-charge		
	Pre-Measurement Qty	12.00	
	Modified Schedule-B Qty	24.26	
	Quantity in 1st RA Bill	12.26	
	Quantity to be Paid	12.00	
	Quantity Carried to Summary	12.00	Sqm
159	Providing and fixing M.S. Grill over existing compound wall as per, using 16mm x 16mm M.S. Square rod at 150mm c/c spacing and 6mm x 40mm M.S. flats at horizontal and 6mm x 12mm M.S. flat for ornamental design and providing shop edge design at the vertex of every vertical rods, including welding, grinding wherever necessary. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., Complete as per specifications and the directions of the Engineer-in-charge		
	Pre-Measurement Qty	48.83	
	Modified Schedule-B Qty	90.50	
	Quantity in 1st RA Bill	41.67	
	Quantity to be Paid	48.83	
	Quantity Carried to Summary	48.83	Sqm
160	Construction of embankment with approved material Gravel/Murum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specification and directions of the Engineer in charge.		
	Pre-Measurement Qty		
	Modified Schedule-B Qty	19.38	
	Quantity in 1st RA Bill	19.38	
	Quantity to be Paid	0.00	
	Quantity Carried to Summary	0.00	Cum

Ch. J. AE-02

Ramaprasanna
Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

		Quantity Carried to Summary	474.00	Mtr
180	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, screws at an interval of 300mm... Etc as required. Complete as per specifications and the directions of the Engineer-in-charge			
		Pre-Measurement Qty	90.00	
		Modified Schedule-B Qty	90.00	
		Quantity in 1st RA Bill	0.00	
		Quantity to be Paid	90.00	
		Quantity Carried to Summary	90.00	Mtr
181	Supplying PVC/GI Flexible conduit pipe.. Mm dia fixing on surface over inverted wooden pugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and either end of the pie terminated Complete as per specifications and the directions of the Engineer-in-charge			
		Pre-Measurement Qty	96.00	
		Modified Schedule-B Qty	96.00	
		Quantity in 1st RA Bill	0.00	
		Quantity to be Paid	96.00	
		Quantity Carried to Summary	96.00	Mtr
182	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size 110mm conduit using necessary machine screws. Complete as per specifications and the directions of the Engineer-in-charge			
		Pre-Measurement Qty	96.00	
		Modified Schedule-B Qty	96.00	
		Quantity in 1st RA Bill	0.00	
		Quantity to be Paid	96.00	
		Quantity Carried to Summary	96.00	Nos
183	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 1 - 3 Way Complete as per specifications and the directions of the Engineer-in-charge			
		Pre-Measurement Qty	60.00	
		Modified Schedule-B Qty	76.00	
		Quantity in 1st RA Bill	16.00	
		Quantity to be Paid	60.00	
		Quantity Carried to Summary	60.00	Each

AE-12

Ramesh Sangeetha
Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

	Modified Schedule-B Qty	25.00	
	Quantity in 1st RA Bill	0.00	
	Quantity to be Paid	25.00	
	Quantity Carried to Summary	25.00	Each
231	Providing and fixing in position brass stop cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads Complete as per specifications and the directions of the Engineer-in-charge		
	Pre-Measurement Qty	16.00	
	Modified Schedule-B Qty	16.00	
	Quantity in 1st RA Bill	0.00	
	Quantity to be Paid	16.00	
	Quantity Carried to Summary	16.00	Each
232	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads Complete as per specifications and the directions of the Engineer-in-charge		
	Pre-Measurement Qty	3.00	
	Modified Schedule-B Qty	3.00	
	Quantity in 1st RA Bill	0.00	
	Quantity to be Paid	3.00	
	Quantity Carried to Summary	3.00	Each
233	Providing and fixing Chlorinated Poly Vinyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) Complete as per specifications and the directions of the Engineer-in-charge		
	Pre-Measurement Qty	300.00	
	Modified Schedule-B Qty	300.00	
	Quantity in 1st RA Bill	0.00	
	Quantity to be Paid	300.00	
	Quantity Carried to Summary	300.00	m

Signature

Reoneshangevaras
 Asst. Executive Engineer
 Yelahanka Sub. Division
 (BBMP Ynk. Zn)
 Yelahanka, Bangalore

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